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How much do we know about mechanical properties of glass fibers?

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In my presentation I will do the following. Firstly, I give a literature review about development in understanding mechanical properties and fracture behavior of glass fibers. Then I report the recent progress of both our group and other groups in revealing several key factors and mechanisms that influences mechanical performances of glass fibers. Finally, I point out major challenges in further clarifying the responses of mechanical properties of glass fibers to both their chemical composition and forming conditions (surrounding atmosphere, thermal histories and drawing forces). Hence, I indicate some possibilities in developing even stronger and more stable fibers for future applications.